

ELECTRONIC APPARATUS WITH STORING SECTION FOR STORING DETACHABLE UNIT INCLUDING GROOVE HOLDING STRIP-LIKE FUNCTION LABEL

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a portable electronic apparatus such as personal computers of the lap-top type and, more particularly, an electronic apparatus provided with a detachable unit such as a battery pack, which are detachably set in a housing of the apparatus.

2. Description of the Related Art

Recently, a plurality of portable electronic apparatuses such as personal computers of book-type and lap-top types are on the market.

Conventionally, such personal computers have a display unit which is swingably provided on a top face of the housing. Of late, since it has been desired that the display unit be large, portable personal computers with an enlarged display unit have been produced. The support legs of the large display unit are arranged on a rear end portion of the top face of the housing, thus permitting the display unit to be enlarged to be substantially the same size as the top face of the housing.

In general, a personal computer has a detachable unit such as a battery pack. Conventionally, the housing of such a computer includes a storing section which has an opening formed in an upper rear corner of the housing and in which the detachable unit is set. However, this rear portion of the case is where the support legs of an enlarged display unit would rest.

The opening of the storing section, through which the detachable unit is detached from and set in the storing section, may be formed in a side of the housing. In this case, however, in order to prevent the detachable unit from disengaging and falling from the storing section while a user is carrying the computer, a lock mechanism must be provided for firmly locking the detachable unit in the storing section. But such a lock mechanism is complicated and large and is expensive to manufacture.

SUMMARY OF THE INVENTION

The present invention provides an electronic apparatus which has an enlarged display unit and which also reliably holds a detachable unit.

In order to achieve the object, an electronic apparatus according to an aspect of the present invention comprises a substantially rectangular box-like housing having a top face; a keyboard arranged on a top front portion of the housing; a storing section formed in the housing and opened to the top face of the housing between the keyboard and a top rear end portion of the housing; a battery pack detachably fitted in the storing section and having a top face which forms a part of the top face of the housing; a display unit having supports attached to the rear end portion of the top face of the housing and mounted on the housing through the supports to be rotatable between a closed position where the display unit covers the keyboard and the battery pack and an opened position where the display unit exposes the keyboard and the top face of the battery pack; and a strip-like function label for showing functions of the keyboard. The housing includes a strip-like holding groove in which the function label is set.

The holding groove has a first portion formed on the top face of the housing and a second portion formed on the top face of the battery pack and communication with the first portion.

Further, an electronic apparatus according to another aspect of the present invention comprises: a substantially rectangular box-like housing having a top face; a keyboard arranged on a top front portion of the housing; a storing section formed in the housing and having an opening which is opened to the top face of the housing between the keyboard and a top rear end portion of the housing, the housing having a wall portion surrounding the storing section except the opening; a detachable unit fitted in the storing section so as to be detachable from the storing section through the opening and having a top face which forms a part of the top face of the housing; and a display unit having supports attached to the rear end portion of the top face of the housing and mounted on the housing through the supports to be rotatable between a closed position where the display unit covers the keyboard and the opening of the storing section and an opened position where the display unit exposes the keyboard and the top face of the detachable unit outside.

Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out in the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate a presently preferred embodiment of the invention, and together with the general description given above and the detailed description of the preferred embodiment given below, serve to explain the principles of the invention.

FIGS. 1 through 12 show a personal computer according to an embodiment of the present invention, in which

FIG. 1 is a perspective view showing the computer;

FIG. 2 is a perspective view showing the structure of a battery pack and a battery pack storing section;

FIG. 3 is a perspective view showing a part of the computer housing together with a hard disk drive pack and a memory card which are to be set in the computer housing;

FIG. 4 is a sectional view showing a part of a function label and a holder groove enlarged;

FIG. 5 is a sectional view of a HDD holder taken along a line V—V in FIG. 3;

FIG. 6 is an exploded perspective view showing the HDD holder;

FIG. 7 front view showing the HDD holder in a state wherein a slider is moved to its retreated position and a rear cover is removed;

FIG. 8 is a front view showing the HDD holder in a state wherein the slider is moved to its latched position and the rear cover is removed;

FIG. 9 is an exploded perspective view showing a part of the personal computer, including a memory card storing section and an ejecting plate;

FIG. 10 is a perspective view showing the memory card storing section with a memory card inserted, but an upper case is removed;